



CMP v8.2 - Product Release Note

6th November 2020

Version: 1.0

Find out how **MDS Global** makes it easy.

mdsglobal.com

Copyright

© THE CONTENTS OF THIS DOCUMENT ARE THE COPYRIGHT OF MDS GLOBAL LTD. ALL RIGHTS RESERVED. THIS DOCUMENT OR PARTS THEREOF MAY NOT BE REPRODUCED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF MDS GLOBAL.

Confidentiality

This document contains information that is proprietary to MDS Global and is confidential. The original recipient of this document may duplicate this document in whole or in part for internal distribution only, provided that this entire notice appears in all copies. This document and its contents may not otherwise be reproduced, distributed or disclosed. The recipient agrees to make every effort to prevent the unauthorised use, distribution or disclosure of the proprietary information contained in this document.

Disclaimer

No representation or warranty is contained in, made or given by this document or the information contained within it and no warranty or representation is made or to be implied that the information contained in this document is complete, up to date, accurate or fit for the purpose for which this document is supplied. In no event shall MDS Global be liable for incidental or consequential damages or loss in connection with, or arising from its use, whether MDS Global was made aware of the probability of such damages or loss arising or not.

Trademarks

The grey and red symbol above is an unregistered trademark of MDS Global Ltd. Other trademarks referred to within this document are the property of their respective trademark holders.

Further Information

Please visit www.mdsglobal.com for further information on MDS Global products, solutions and services.

ISO 22301 standard is applicable to MDS Global Business Operations.



Contents

1.0	Introduction	1
1.1	Scope	1
1.2	Audience	1
2.0	Release Scope	2
2.1	Core CMP Modules	2
2.2	Optional CMP Modules	4
2.3	UK-specific Adaptors	4
2.4	OCS-specific Adaptors	5
3.0	New and Changed Functionality	6
3.1	Introduction	6
3.2	New functionality	6
3.2.1	SMPP Adapter	6
3.3	Changed Functionality	6
3.3.1	MSISDN Search on Subscriber Installation	6
3.3.2	Data Warehouse Extracts	6
3.3.3	Zero Priced Packages	6
3.3.4	RESTful Payments Web Service	6
3.3.5	ICCID Length	7
3.3.6	Include Target in External Comms Active MQ	7
3.3.7	Correct Handling of Inbound Message Failures	7
3.3.8	Integration of Spend Analyser with CMP 8	7
4.0	CMP Impact	9
4.1	Introduction	9
4.2	AgentView Changes	9
4.2.1	New Screens	9
4.2.2	Changed Screens	9
4.2.3	Recent Usage	10
4.3	Bulk Action Changes	10
4.3.1	New Bulk Actions	10
4.3.2	Changed Bulk Actions	11
4.4	Admin Console Changes	11
4.4.1	New Processes	11

4.4.2	Changes Processes	11
4.4.3	New Batch Jobs.....	12
4.4.4	Changed Batch Jobs	12
4.4.5	New Probes	17
4.4.6	Deprecated Probes.....	17
4.5	Business Configuration Changes	18
4.5.1	New Screens	18
4.5.2	Changed Screens.....	18
4.6	SOAP Web Service Changes	18
4.6.1	cardReference Element.....	18
4.7	RESTful Web Services Changes	19
4.7.1	New RESTful Web Services.....	19
4.7.2	Changed RESTful Web Services	19
4.7.3	POST Payment Web Service	20
4.7.4	GET Payments Web Service.....	21
4.7.5	POST Purchase Web Service	21
4.8	Integration Adapters	21
4.8.1	SMPP Adaptor.....	21
4.9	Openet-specific Adapters	21
4.10	UK-specific Adapters.....	21
5.0	Product Support Issues.....	22
5.1	Solved Issues.....	22
6.0	Documentation	25
6.1	Product Documentation	25
6.1.1	Updated Documents.....	25
7.0	Release Upgrade Path.....	27
7.1	Upgrade Notes	27
7.1.1	Inventory Manager Changes	27
7.1.2	Overridden Properties Files.....	27
7.2	Third party libraries.....	28
7.3	Database Changes.....	28
7.3.1	New Tables.....	28
7.3.2	New Attributes	28
7.3.3	Dropped Attribute	28

7.3.4	Modified attributes	28
7.4	Configuration Changes.....	29
7.4.1	Tariff Change Matrix	29
7.4.2	Length of ICCID.....	29
7.4.3	New Security Roles	29
7.4.4	External Configuration Module	29
7.4.5	Known Issues	30

1.0 Introduction

1.1 Scope

This document provides an overview of the CMP 8.2 release with specific focus on the additional functional and non-functional enhancements with respect to CMP 8.1.3.

1.2 Audience

This document is intended for both internal and external use for readers familiar with CMP to explain the key features of the release including any changes in how existing functions or processes are working.

2.0 Release Scope

2.1 Core CMP Modules

The following modules form the basis of the CMP 8.2 release:

Module	Version
agent-view	8.5.12
agent-view-interfaces-layer	8.5.48
agent-view-servlet	8.3.11
bulk-action-console	1.4.42
cmp-database-pkg	8.5.27
cmp-pentaho-reports-pkg	1.1.3
configuration-centre	8.5.28
dataModel	2.4.60
login-component	8.2.3
openet-synchronous-provisioning-impl	8.4.11
published-interfaces-layer	8.5.15
rest-ws	2.4.45
role-extender	8.4.2
setup-utility	1.0.48
shared-services	1.5.14
soap-ws	8.5.18
sso-client	1.6.3
validation	8.5.1
wso2is-login	1.4.2
sabre-action-monitor	2.3.9
sabre-advance-notification	1.1.3
sabre-analyser-extract	2.3.12
sabre-batch-error-management	2.1.15
sabre-bill-print	2.4.2
sabre-bulk-action-framework	1.7.19
sabre-comms	2.4.14
sabre-credit-control	2.3.2
sabre-credit-reference	2.4.2
sabre-dal	2.4.87
sabre-data-warehouse	2.4.30
sabre-debt-recovery-agency	2.4.1
sabre-device-enrolment	1.2.1
sabre-edit-subscription	1.7.7
sabre-external-configuration	2.4.2
sabre-external-reference-upload	1.7.1
sabre-gdpr-purge	2.4.1
sabre-general-ledger	1.1.1

sabre-generic-activity-adapter-daemon	2.1.13
sabre-generic-postingout-daemon	2.1.41
sabre-interface-purge	1.1.2
sabre-invoice-posting	2.3.1
sabre-invoice-production	2.4.1
sabre-ledger-monitor	2.3.4
sabre-managed-number-monitor	2.4.1
sabre-managed-numbers	2.3.3
sabre-manage-plan-tariff-change	1.0.23
sabre-manage-subscription-feature	1.0.79
sabre-manage-workflow	1.0.76
sabre-mandate-registrations	2.3.1
sabre-mandate-revisions	2.3.1
sabre-mdsledger-adapter	2.2.1
sabre-non-recurring-payments	2.4.1
sabre-provisioning	2.4.1
sabre-rated-charge	2.4.2
sabre-rated-usage	2.4.4
sabre-receipt-pdf-collection-adapter	2.1.2
sabre-receipt-print	2.4.1
sabre-recurring-payments	2.4.7
sabre-recurring-pre-payments	1.3.5
sabre-sales-order	1.2.1
sabre-server	1.9.53
sabre-sim-profile	2.4.5
sabre-statement-production	2.2.5
sabre-usage-archiving	2.2.1
sabre-workflow-monitor	2.4.2

In addition, the following third-party components are included:

Module	Version
wso2is	5.0.7-17
jboss-postgres-jdbc-driver-eap7	1.0-33
webswing	2.5.5-47

The third-party components above are dependent on the following configuration modules:

Module	Version
jboss-aviewiface-address-lookup-interface-eap7	8.5-48
jboss-aviewiface-stock-check-interface-eap7	8.5-48
jboss-aviewiface-configuration-eap7	1.0-33
jboss-aviewiface-ocs-interface-eap7	8.5-46

jboss-ccentre-configuration-eap7	1.0-33
jboss-pil-configuration-eap7	1.0-33
jboss-soapws-configuration-eap7	1.0-33

2.2 Optional CMP Modules

The following modules are not part of the core CMP 8.2 release but are considered optional modules that can be installed if required based on the specific installation requirements:

Module	Version
sabre-bottomline-pdf-collection-adapter	2.1.6
sabre-smpp-adapter	1.1.1

If any of these modules are required for the installation, then they should be added to the 'additional_modules' section of the inventory file.

2.3 UK-specific Adaptors

The following modules are provided specifically for the UK market to support BACS direct debit payments and credit reference extracts to Equifax:

Module	Version
sabre-addacs-transformation-adapter	2.2.1
sabre-addacs-xml-adapter	1.0.1
sabre-arucs-transformation-adapter	2.2.1
sabre-arucs-xml-adapter	1.0.2
sabre-arudd-xml-adapter	1.0.1
sabre-auddis-transformation-adapter	2.1.22
sabre-auddis-transformation-inbound-adapter	2.2.1
sabre-auddis-xml-adapter	1.0.2
sabre-awacs-transformation-adapter	2.2.1
sabre-awacs-xml-adapter	1.0.2
sabre-bacs-transformation-adapter	2.2.1
sabre-bacs-xml-common	1.0.1
sabre-recurring-bank-payments-bacs-adapter	2.1.2
sabre-equifax-insight2001	2.1.3
sabre-experian-transformation-adapter	2.2.1

Note that these modules are not installed by default and if required should be added to the 'additional_modules' section of the inventory file as required. Note that some of these adaptors are mutually exclusive and therefore the specific modules that need to be added to the inventory file are dependent on the specifics of the deployment.

2.4 OCS-specific Adapters

The following modules are provided specifically for a Real Time Charging environment to support use of Openet as the external Online Charging System (OCS) integrated into CMP:

Module	Version
sabre-openet-bill-cycle-adapter	1.8.6
sabre-openet-provisioning-adapter	2.3.66
sabre-openet-recurring-prepayment-adapter	1.0.29
sabre-openet-usage-adapter	2.3.14

Note that these modules are not installed by default and if required should be added to the 'additional_modules' section of the inventory file.

3.0 New and Changed Functionality

3.1 Introduction

CMP 8.2 introduces a number of functional and non-functional changes with respect to CMP 8.1.3. This includes new functionality as well as changes to existing functionality and non-functional improvements. These changes can be summarised as follows:

3.2 New functionality

3.2.1 SMPP Adapter

A new adapter has been developed in CMP 8.2 that converts CMP-generated SMS notifications into SMPP requests to an external SMSC/SMS Gateway. SMPP v1.3 is supported.

3.3 Changed Functionality

3.3.1 MSISDN Search on Subscriber Installation

Through REST it is now possible to search for an MSISDN with specific digits using wildcards as part of the search. The GET Serial Number REST webservice has been enhanced to allow a filter parameter to be entered that is used to search for available MSISDNs that match a wildcard string such as 077*8* for example.

3.3.2 Data Warehouse Extracts

Many MVNO use dealers to sell their services to end subscribers. Dealer commissions are calculated based new subscriptions for example.

The sales person number and sales person name have been added to the extract to enable the dealer responsible for the subscription creation to be identified and have commissions paid against the sale.

3.3.3 Zero Priced Packages

CMP 8.2 now supports the ability to purchase zero priced recurring packages through both AgentVew and REST. In this case, no payment will be attempted when purchasing the package and also as part of the package renewal. In addition, it is not possible to request a receipt for a zero priced package.

3.3.4 RESTful Payments Web Service

3.3.4.1 Additional Payment Details for Create Payment

In order to better align the Create Payment REST web service with the Create Purchase REST web service and the old SOAP recordPayment web service, it is now possible to specify external identifiers such as the authorisation code received through external authorisation.

3.3.4.2 Support for Cash Payments

In CMP 8.1.3 it was not possible to support payments made outside of CMP with cash or by cheque. Cash payments are supported in CMP 8.2 through the existing POST Payments REST web service using a payment source of 'ONLINE'. For cash payments, it will not be necessary to provide card details.

3.3.4.3 Query Payment by External Payment Identifier

In support of the change above for an external system to supply a payment reference for the transaction, CMP 8.2 now enables an external system to enquire on a specific payment using either the external reference or the service provider unique identifier.

3.3.4.4 Recording Failed Payments

The current recordPayment SOAP service supports the ability for an external system to record a failed payment. In CMP 8.2 the Create Payment REST web service has been enhanced to support recording of a failed payment enabling the existing SOAP service to be deprecated without loss of functionality.

3.3.5 ICCID Length

The length of the ICCID field has been increased from 19 characters to 20 characters to support the maximum possible length of the ICCID as defined by change request TP-02021 raised against the ITU-T E.118 standard for the international telecommunication charge card.

3.3.6 Include Target in External Comms Active MQ

In CMP 8.1.3, for an outbound communications message to an external system it is not possible to specify the target system for the message in such a way that the messages can be selectively read by the external systems.

Within CMP 8.2, the external target is now exposed on the header portion of the message to allow different external systems to filter and process messages based on the value in the target.

3.3.7 Correct Handling of Inbound Message Failures.

If issues are found with the inbound message that is received from an external system on the external notifications queue then the message will now be moved onto a corresponding error queue.

3.3.8 Integration of Spend Analyser with CMP 8

Spend Analyser is a bill analysis and presentation tool that delivers secure Invoice Analysis and reporting functionality. It is an adjunct product to CMP.

Spend Analyser supports both offline and online data to provide users with a view of invoices and allows them to analyse their communications spend over invoice line and invoice usage information. Offline data is uploaded into Spend Analyser from data extracted from CMP and online data is retrieved from CMP using REST web services. The changes required to CMP to support integration to Spend Analyser can be summarised as follows:

- Hierarchy Extract: CMP Hierarchies can change over time and the Hierarchy Extract is used to extract the hierarchy that was in place for a particular invoice run which is then loaded into the Spend Analyser database. The existing Hierarchy Extract has been refactored to align with CMP 8.
- Invoice Extract: This extract reads the Invoice Header table and selects all invoices for the invoice run number. The existing Invoice Extract has been refactored to align with CMP 8.
- REST Web Services Changes:
 - New GET Group and GET Group List web services
 - Update to the GET Corporate web service to add a HATEOUS Link to access the corresponding Group Item
 - New GET Billing Control web service which retrieves the agreement details via the supplied agreement number
 - Update to the GET Account web service to enable filtering by Corporate code and to add additional fields to the response
 - Update to the GET Subscription web service to include Network Type, Corporate and Group code, Subscription Status, Network Command Description Code and hardware details
 - New GET Consolidated Sales Ledger web service that returns a list of consolidated sales ledger transactions.

4.0 **CMP Impact**

4.1 **Introduction**

The functional and non-functional changes highlighted in section 3.0 above have had an impact CMP in the following areas:

- New and changed AgentView screens
- Bulk Action changes
- Admin Console changes
- New and changed Business Configuration screens
- SOAP web services changes
- RESTful web services changes
- Integration adapter changes
- Openet-specific adapter changes
- UK-specific adapter changes.

4.2 **AgentView Changes**

4.2.1 **New Screens**

There are no new AgentView screens in CMP 8.2.

4.2.2 **Changed Screens**

The About CMP screen that is accessed by clicking the CMP logo in the top right of all AgentView screens has been enhanced to display the CMP version, build time and a licence statement.

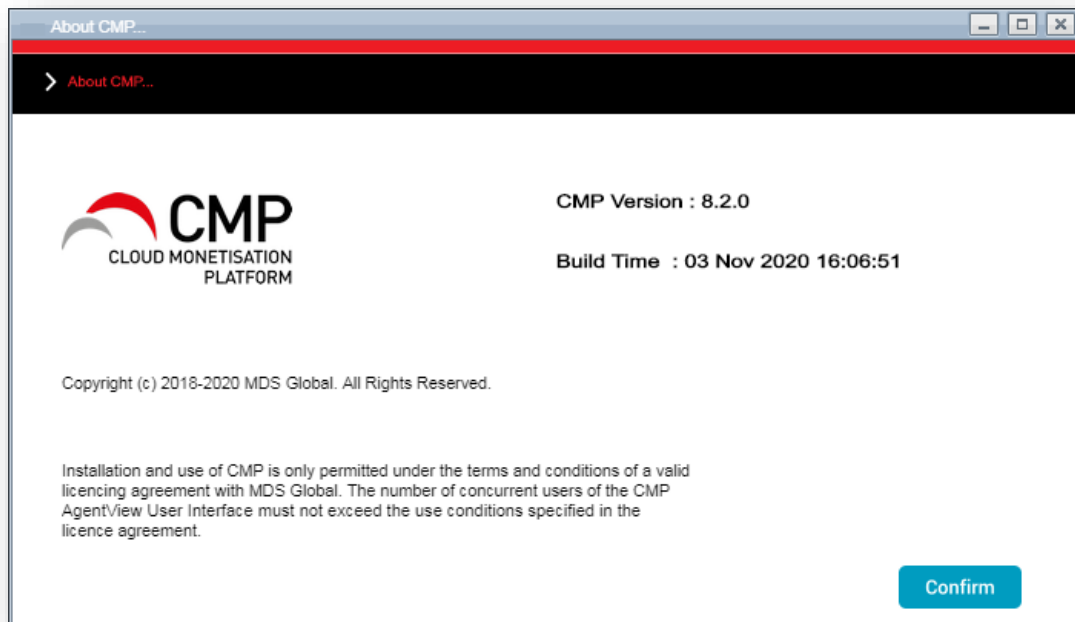


Figure 1: About CMP Popup

4.2.3 Recent Usage

When viewing a specific usage record through the Recent Usage menu option of the Billing swish, the right click option to view 'Unit Allowance' is now disabled where consumption is not from an inclusive allowance.

4.3 Bulk Action Changes

4.3.1 New Bulk Actions

CMP 8.2 introduces three new bulk action jobs:

- Workflow Event
- Features
- Plan/Tariff Change.

4.3.1.1 Workflow Event

The bulk workflow job allows for the creation, processing and resolution of workflows for multiple subscriptions. The bulk action allows a specific workflow to be applied to a set of groups, corporates, agreements, accounts or subscriptions specified in the excel file uploaded as part of the job specification.

The Workflow Event bulk action is available from the Bulk Actions menu and allows specification of a particular workflow event to be applied to the entity defined in the driver file. Event notes and contact information can be specified to be applied to all workflows created. The processing type defined determines how the workflow is progressed after creation including automatic assignment to a specific user or team.

4.3.1.2 Features

The bulk features job enables the change of price plan and/or tariff for multiple subscriptions. The bulk action allows a specific feature code to be enabled or disabled on a set of subscriptions specified in the excel file uploaded as part of the job specification.

The Features bulk action is available from the Bulk Actions menu and allows specification of the particular feature to be applied to the subscriptions defined in the driver file as well as the action to be performed for the feature - enable or disable. The UI enables the reason for the feature change and any associated notes to be specified that are applied to all subscriptions affected by the feature change.

4.3.1.3 Plan/Tariff

The bulk plan/tariff job enables the change of price plan and tariff for multiple subscriptions. The bulk action allows for either a Price Plan or Tariff to be specified for a set of subscriptions specified in the excel file uploaded as part of the job specification.

The Plan/Tariff bulk action is available from the Bulk Actions menu and allows specification of a Price Plan or Tariff to be applied to the subscriptions defined in the driver file as well as the date that the change becomes effective.

4.3.2 Changed Bulk Actions

No bulk actions have been changed as part of CMP 8.2.

4.4 Admin Console Changes

4.4.1 New Processes

The following processes have been added as part of CMP 8.2:

- The 'Billing Analytics' process runs both the Hierarchy Analytics extract followed by the Invoice Analytics extract. At the end of the process the Invoice Analytics extract complete alert probe is executed to check that extract files have been produced for both jobs.
- The 'Recurring Bank Payments' process runs the Recurring Payments job in 'Bank' mode. At the end of the job the 'Recurring Payments' (Bank) batch complete alert probe is executed to check that the job completed successfully.
- The 'Recurring Card Payments' process runs the Recurring Payments job in 'Card' mode. At the end of the job the 'Recurring Payments' (Card) batch complete alert probe is executed to check that the job completed successfully.

4.4.2 Changes Processes

The following changes have been made to the processes in CMP 8.2 with respect to those in CMP 8.1.3:

- the 'Financial Purge' process has been deprecated
- the 'Unbilled Usage Analytics' process has been deprecated

- the 'Manage Number Monitor' process has been changed so that it checks for both low availability of SIM's and serial numbers. These probes were already part of CMP 8.1.3.
- the 'Data Warehouse - Consumer Prepaid' process has been changed to remove all the individual probes that are invoked after each job and replace with single probe that checks for production of 9 files.

4.4.3 New Batch Jobs

No additional batch jobs have been introduced as part of CMP 8.2.

4.4.4 Changed Batch Jobs

4.4.4.1 Comms Job

There is an element 'Target' that is currently output in the Comms External JSON schema. This JSON is dropped onto an activeMQ for a third party to consume. In CMP 8.2 the target is now part of the header portion of the activeMQ to allow different external systems to filter and process communications based on the value in the target.

In CMP 8.1.3, if a message was received on an inbound queue that had errors such that the JSON parser or the daemon validation failed, then the daemon would retry the message for a few times then terminate to avoid it going into an infinite loop. The message would sit on the inbound queue causing incoming messages to back up. In CMP 8.2, if the comms daemon is unable to process the message from the inbound queue then it will move the message to a new error queue. The name of the error queue is defined within the comms module properties.

It should be noted that it will be a manual process to periodically check this error queue for content.

4.4.4.2 Bill Print Job

The Bill Print Job has been modified to correct some issues with the generated bill print file namely:

- In CMP 8.1.3 the record count was showing the total of statements and invoices. In CMP 8.2 this now shows a count of the number of envelopes in the file.
- In CMP 8.1.3 the 'totalCharges' element in the Statement section was outputting to 4 decimal places. In CMP 8.2 this is now output as 2 decimal places.

In addition, the 'unit of measure' was missing from the allowance section of the JSON schema. In CMP 8.2 a 'unitOfMeasure' element has been added to the 'usageAllowances' section of the schema (bill-print.schema.json) and the version updated to version 1.3.

4.4.4.3 SIM Profiles Job

The SIM profiles job JSON schema (sim-profiles.schema.json) has been modified to increase the length of the ICCID field from 19 characters to 20 characters (see section 0 above).

The version of the updated JSON schema released with CMP 8.2 is 1.1.

4.4.4.4 Invoice Posting Job

The Invoice Posting JSON schema () has been updated to remove the value 'Invoice Posting G/L' from the enumerated list of the element 'interfaceType'. Since the General Ledger is now a standalone job, the value is no longer valid. In addition, the 'Amount' element has been changed to allow for negative values by setting the minimum value to '-99,999,9999.99'. The version of the schema has been updated accordingly to version 1.1.

4.4.4.5 Receipt Print job

In CMP 8.1.3 the Receipt Print job uses the email address that is stored at account level which is incorrect. In CMP 8.2 this has been changed to now use the email address that is held at subscription level.

In addition, when an account has multiple receipts in the same receipt print JSON file they should be in the same envelope within the file. In CMP 8.1.3 these were output in different envelopes. The JSON schema (receiptprint-extract.schema.json) has been modified accordingly and the schema version has been updated to version 1.2.

4.4.4.6 Recurring Payments Job

The Recurring Payments Card JSON schema (recurring-card-outbound.schema.json) has been modified to increase the maximum length of the Card Reference element from 20 characters to 100 and add externalReference and spUniqueIdentifier elements. In addition, the element name 'Interface Value' has been changed to 'Interface Type' to keep it consistent with other JSON schemas. The version of the schema has been updated accordingly to version 1.1.

The Recurring Payments Cheque JSON schema (recurring-cheque-outbound.schema.json) has been modified to make the elements 'title' and 'middlename' and 'forename' non-mandatory. In addition, the element name 'Interface Value' has been changed to 'Interface Type' to keep it consistent with other JSON schemas. The version of the schema has been updated accordingly to version 1.1.

4.4.4.7 Data Warehouse Extracts

All the extracts have been updated with the following changes:

- the column name delimiter defined by the sabre-data-warehouse module property 'analytics.job.field.delimiter' is now used to separate the columns in the output
- an extract version has been added as the first record in the extract output.

In addition, the following changes have been made to specific extracts:

Account Analytics

The Account data warehouse extract has been modified as follows:

- the column heading 'Amount Due' has been changed to 'Amount Overdue'
- the 'Last Invoice Date' and 'Next Expected Invoice Date' are now output as dates not date/times

- the column headings 'Date Created' and 'Date Changed' have been renamed to 'Date Time Created' and 'Date Time Changed' respectively to be consistent with the record data.

Agreement Analytics

The Agreement data warehouse extract has been modified as follows:

- the 'Next Expected Invoice Date' is now output as a date not a date/time
- the column headings 'Date Created' and 'Date Changed' have been renamed to 'Date Time Created' and 'Date Time Changed' respectively to be consistent with the record data.

Billed Usage Analytics

The Billed Usage data warehouse extract has been modified as follows:

- the milliseconds on 'Usage Date Time', 'Processed Date Time' and 'Audit Date Time' has been removed
- the 'Data Extract date is now in the format YYYY-MM-DD to be consistent with other DWH extracts

Invoice Detail Analytics

The Invoice Detail data warehouse extract has been modified as follows:

- the 'Invoice Tax Date', 'Charge Start Date' and 'Charge End Date' are now output as dates not date/times.

Payment Detail Analytics

The Payment Detail data warehouse extract has been modified as follows:

- the column heading 'Reason Code Description' has been renamed to 'Reason Description'.
- Payments with a status of 'I' now appear as 'In Progress' in the 'Payment Status Description' column.
- All date/time columns are now output in a consistent format.

Prepaid Usage Analytics

The Prepaid Usage data warehouse extract has been modified as follows:

- the milliseconds on 'Usage Date Time', 'Processed Date Time' and 'Audit Date Time' has been removed
- the column heading 'Processed Date Time' has been changed to 'Usage Processed Date Time'
- The 'Network Code Description' has been removed
- The 'Data Extract Date' is now output as the current date in YYYY-MM-DD format as oppose to the date of the last extract.

Purchase Analytics

The Purchases data warehouse extract has been modified as follows:

- the milliseconds on 'Purchase Timestamp' has been removed
- a 'Product Code Description' column has been added to the output.
- All date/time columns are now output in a consistent format.

Subscription

The Subscription data warehouse extract has been modified as follows:

- the word 'Code' has been removed from various columns '. Code Description' column labels
- the column labels beginning 'Network Serial Numbers' have been changed to 'Network Serial Number'
- the column labels beginning 'Address Lines' have been changed to 'Address Line'
- the 'Delivery Address Name' column has been added to the extract
- the 'Connected Date', 'Disconnected Date' and 'Contract Start Date' have been changed to date fields.
- 'Sales Person Number' and 'Sales Person Name' columns have been added to the output
- the column headings 'Date Created' and 'Date Changed' have been renamed to 'Date Time Created' and 'Date Time Changed' respectively to be consistent with the record data.

Subscription Feature

The Subscription Feature data warehouse extract has been modified as follows:

- the column headings 'Date Created' and 'Date Changed' have been renamed to 'Date Time Created' and 'Date Time Changed' respectively to be consistent with the record data.

Subscription Service

The Subscription Service data warehouse extract has been modified as follows:

- the 'Service Description' column heading typo has been corrected
- the column heading 'Subscription Effective Date' has been renamed to 'Subscription Service Effective Date'
- the column heading 'Price Expiry' has been renamed to 'Subscription Service Expiry Date'
- the 'Subscription Service Effective Date and 'Invoiced Up To Date' have both been changed to date fields.
- the column headings 'Date Created' and 'Date Changed' have been renamed to 'Date Time Created' and 'Date Time Changed' respectively to be consistent with the record data.

- the 'Data Extract date is now in the format YYYY-MM-DD to be consistent with other DWH extracts.

Transaction Details Analytics

The Transaction Details data warehouse extract has been modified as follows:

- the 'Transactionre Rerence' column heading typo has been corrected.
- the 'Transaction Date' column is now output as a date only field
- the 'Money' column is now output in a money format to make it consistent with other monetary amounts on other extracts
- the 'Audit User' column heading was missing and has now been added.

Unallocated Usage Analytics

The Unallocated Usage data warehouse extract has been modified as follows:

- the 'Usage Type' field is now populated with just a code rather than a description as the description is already available in the 'Usage Type Description' field following
- the 'Data Extract date is now in the format YYYY-MM-DD to be consistent with other DWH extracts
- the milliseconds have been removed from the Audit Timestamp

If no records are extracted as part of the run then a file will still be produced but with just a version and a header record.

Unbilled Usage Analytics

The Unbilled Usage data warehouse extract has been modified as follows:

- the milliseconds on 'Usage Date Time', 'Processed Date Time' and 'Audit Date Time' has been removed
- the 'Data Extract date is now in the format YYYY-MM-DD to be consistent with other DWH extracts.

Spend Analyser Extract - Invoice

The Invoice Extract selects all invoices for the invoice run number entered. In CMP 8.1.3 this extract was not working correctly and has been refactored in CMP 8.2 to extract invoice information for use by external systems.

Spend Analyser Extract Hierarchy

The Hierarchy Extract is used to extract the hierarchy that was in place for a particular invoice run. In CMP 8.1.3 this extract was not working correctly and has been refactored in CMP 8.2 to extract hierarchy information for use by external systems.

4.4.4.8 Other Changes

The Credit Reference Extract JSON schema (creditReferenceExtract.schema.json) has been modified to remove the 'externalFileName' element as this is not relevant to the output. The version of the schema has been updated accordingly to version 1.2.

The Recurring Prepayment Card Extract JSON schema (recurringprepayments.schema.json) has been modified to increase the maximum length of the Card Reference element from 20 characters to 100. The version of the schema has been updated accordingly to version 1.1.

The version number of the JSON schema for the General Ledger Extract job (general-ledger.schema.json) has been updated to align with the versioning of other JSON schemas.

In CMP 8.1.3 the SMS daemon writes the message details of outbound SMS notifications onto the file system. As a result of the new SMPP adapter, the daemon now writes onto an outbound ActiveMQ instance. The details of the queue instance are configurable through the comms module properties.

4.4.5 New Probes

The following probes have been introduced in CMP 8.2:

- Comms Email Monitor Job alert probe for number of email comms that errored today
- Comms Letter Monitor Job alert probe for number of letter comms that errored today
- Prepaid Analytics job alert probe for extract complete.

4.4.6 Deprecated Probes

The following probes have been deprecated in CMP 8.2:

- Account Analytics job:
 - SLA probe for Extract Completed
 - alert probe for Batch Completed
- Agreement Analytics job:
 - SLA probe for Extract Completed
 - alert probe for Batch Completed
- Comms Monitor job Alert probe for Batch Normal
- General Ledger job:
 - alert probe for Batch Completed
 - SLA probe for Extract Completed
- Invoice Detail Analytics job:
 - SLA probe for Extract Completed
 - alert probe for Batch Completed
- Payment Detail Analytics
 - SLA probe for Extract Completed
 - alert probe for Batch Completed
- Purchase Analytics
 - SLA probe for Extract Completed

- alert probe for Batch Completed
- Rated Usage job SLA probe for Verification Normal
- Receipt Print job Alert probe for Batch Completed
- Recurring Prepayment job alert probe for Batch Completed
- Recurring Prepayment Balance job alert probe for Batch Completed
- Subscription Analytics
 - alert probe for Batch Completed
 - SLA probe for Extract Completed
- Subscription Feature Analytics
 - alert probe for Batch Completed
 - SLA probe for Extract Completed
- Subscription Service Analytics
 - alert probe for Batch Completed
 - SLA probe for Extract Completed

Transaction Detail Analytics

- SLA probe for Extract Completed
- alert probe for Batch Completed

Unallocated Usage Analytics

- alert probe for Batch Completed
- SLA probe for Extract Completed

Unbilled Usage Analytics

- SLA probe for Extract Completed
- alert probe for Batch Completed.

4.5 Business Configuration Changes

4.5.1 New Screens

No additional Business Configuration screens have been introduced as part of CMP 8.2.

4.5.2 Changed Screens

No Business Configuration screens have been changed as part of CMP 8.2.

4.6 SOAP Web Service Changes

4.6.1 cardReference Element

The cardReference element within the AddRegisteredCard, CancelRegisteredCard and UpdateRecurringPaymentDetails SOAP web service requests have been increased in length to 100 characters.

4.7 RESTful Web Services Changes

4.7.1 New RESTful Web Services

4.7.1.1 GET Group Web Service

CMP 8.2 provides a new web service that allows an external system to get details of a single group by providing the group identifier as a request path parameter. The API returns the identifiers of the delivery address and the posting account. HATEOAS links in the response allow the delivery address details, posting account details and a list of corporates associated with the group to be returned.

4.7.1.2 GET Billing Controls Web Service

Billing Control is a synonym for Agreement. A new GET Billing Controls web service has been added that allows an external system to retrieve the agreement details via the supplied agreement number. The billing control identifier (agreement number) is specified as a request path parameter. An optional embedded HATEOAS link in the request allows for delivery address information to be retrieved as well as agreement information.

4.7.1.3 GET Consolidated Sales Ledger Web Service

A new GET is provided in CMP 8.2 that allows an external system to get a list of consolidated sales ledger transactions for a specific account. Consolidated transactions are where a number of sales ledger entries are presented together as one transaction. They appear in AgentView in the Transactions screen on the Account Summary.

The response can be filtered by the transaction status (open or closed).

4.7.2 Changed RESTful Web Services

4.7.2.1 POST Serial Number Web Service

The existing POST Serial Number REST web service has been enhanced to allow for a wildcard to be specified as part of the request to get a list of available serial numbers to select from. This enables external systems to be able to search for lucky numbers like 123*8* for example. The wildcard is enabled through a new filter. The request implements the following restrictions on the wildcard search:

- A minimum search length restriction of two digits is imposed to ensure performance and efficiency.
- A single asterisk with no digits is not allowed
- Two consecutive asterisks is not allowed

If any of the above are entered into the request filter then an error will be returned.

4.7.2.2 GET Corporate Web Service

The existing GET Corporate REST web service has been enhanced to provide a Group HATEOAS link within the response. The HATEOAS link returns details of the group that the corporate is part of.

4.7.2.3 GET Account Web Service

The existing GET Account REST web service response has been enhanced as follows:

- The request has been enhanced to add a filter to get the list of accounts associated with a corporateld.
- The response has been enhanced as follows:
 - The AccountType element has been changed to be an object with Id and description elements within it.
 - A PaymentType object (id & Description) has been added
 - A PaymentTerms object (id & Description) has been added
 - A CostCentre element has been added.
 - A PostingAccountType element has been added that is an enumeration of one of NO, CORPORATE or GROUP.
 - A hateaos link to the accounts Corporate and Group is provided if the corporateld or groupId elements are populated.

4.7.2.4 GET Subscription Web Service

The existing GET Subscription REST web service has been enhanced to include the network type associated with the subscription, the network command that was last used (and associated subscription status) and the last subscription related hardware product that was purchased by a subscriber. In addition, the response also provides a Billing Controls hateaos link that returns details of the agreement associated with the subscription.

4.7.3 POST Payment Web Service

The create payment rest web service has been enhanced to cater for the increased field size of the card reference (token) and also to include the following additional fields:

- authenticationCode
- externalReference
- apUniqueIdentifier
- Transaction Date and Time.

When supplied in the request, the Authentication Code, External Reference and SP Unique Identifier elements are checked for uniqueness in CMP. The request is rejected if any of these supplied values are not unique.

In addition, the create payment web service has been enhanced to support manual payments e.g. cash or cheque that are taken external to CMP. Payments with a source of ONLINE have an additional element, paymentType that indicates whether the payment is a card payment or a manual payment. Payment details are now only mandatory if the payment type indicates a card payment (credit or debit).

Finally, errorCode and errorDescription elements have been added to the ONLINE create payment web service to allow an external system to register failed payments.

4.7.4 GET Payments Web Service

The existing GET Payments REST web service has been enhanced to allow for filtering of payments based on the externalReference field.

4.7.5 POST Purchase Web Service

The existing create purchase REST web service has been enhanced to cater for the increased field size of the card reference (token) and also to support the purchase of a zero priced package. For zero priced packages, the request will fail if a receipt is requested.

4.8 Integration Adapters

4.8.1 SMPP Adaptor

A new adapter has been developed in CMP 8.2 that converts JSON ActiveMQ SMS requests into SMPP requests to an external SMSC/SMS Gateway. SMPP v1.3 is supported. The SMPP Adapter module is deployed with a standard set of module properties to configure but the edit module properties capability enables additional module properties to be added, if required, from those available for the SMPP Camel component used by the adaptor.

4.9 Openet-specific Adapters

The Openet-specific adapters are optional components of the CMP deployment that are based on the licence agreement with MDS Global.

No changes have been made to the Openet-specific adapters in CMP 8.2.

4.10 UK-specific Adapters

No changes have been made to UK-specific adapters in CMP 8.2.

5.0 Product Support Issues

5.1 Solved Issues

The following issues have been addressed within this release:

Reference	Area	Description
CMPIS-309	AgentView	Comms Preferences Panel Issues
CMPIS-365	Data Warehouse Extracts	Unallocated Usage Analytics - Error Metadata Refactoring
CMPIS-382	Bulk Actions	Edit Subscription - Error Metadata Refactoring
CMPIS-385	Data Warehouse Extracts	Invoice Detail Analytics - Error Metadata Refactoring
CMPIS-387	Data Warehouse Extracts	Subscription Service Analytics - Error Metadata Refactoring
CMPIS-396	Comms	Comms Monitor - Error Metadata Refactoring
CMPIS-527	Business Config	Delete Rolling Package Service Not Working
CMPIS-541	Business Config	Add Event Codes Possible Without Mandatory Data
CMPIS-784	Billing	Subscription - First & last invoice dates updated when no invoice produced
CMPIS-810	Comms	Manually Raised Comms using Opt Out logic
CMPIS-811	AgentView	Status of 'Read' showing instead of 'Error'
CMPIS-847	AgentView	'Spanish' being displayed in Delivery Method
CMPIS-863	Comms	Online Comms to Parent Subscription remain at status of 'Awaiting Distribution'
CMPIS-866	Comms	No E164 Conversion for currentServiceId field in External Comms
CMPIS-872	Billing	Non-Subscription - Structure Details Not Recognised When Creating a Non-Subs Charge
CMPIS-983	Receipt Print	Multiple receipts for same account should be in same envelope
CMPIS-1049	AgentView	View Invoice Details Panel - Missing Total Units
CMPIS-1060	AgentView	Customer Email Address - Inactive record shouldn't be allowed as primary
CMPIS-1083	Web Services	SOAP Webservice – QueryRecentUsage not using limit configuration
CMPIS-1086	AgentView	Add Payment & Add Refund panel size too small
CMPIS-1090	AgentView	Agent View & SOAP - Address Creation - No Date of Birth Supplied
CMPIS-1127	AgentView	Workflow Summary not working for new installation
CMPIS-1131	AgentView	Device enrolment status "Complete With Errors" not visible on the GUI
CMPIS-1134	AgentView	Comments panel on Order Summary screen presenting with wrong orientation to user
CMPIS-1137	AgentView	Account Creation - Non-Sub First Invoice Date should be NULL
CMPIS-1151	AgentView	Workflow events displayed out of sequence in Event Summary bottom panel.
CMPIS-1163	Business Config	Default Fields List screen shows duplicates
CMPIS-1164	Business Config	Parameter box too small on Add/Edit Default Fields

CMPIS-1172	AgentView	Personal Address Confirmation panel not displayed correctly
CMPIS-1193	Comms	Comms event initiated even if email address change isn't made
CMPIS-1199	Comms	Selection of filter option 'Sent To' for 'Comms' list results in an Internal System Error
CMPIS-1206	AgentView	Subscription Creation - Sales Account not stored
CMPIS-1219	SIM Profile Upload	Network type & operator should be optional
CMPIS-1238	AgentView	Debit Sales Ledger Adjustments not possible
CMPIS-1249	Web Services	SOAP - Update Service allowed in Consumer Mode
CMPIS-1258	Business Config	Recurring Payment Rejection Control Hard Decline configuration
CMPIS-1263	Web Services	REST Payment - Refund - Error Message
CMPIS-1264	Business Config	Cannot Create Package Service
CMPIS-1271	Workflow Monitor	Error adding record to quickjobtrigger table
CMPIS-1277	Business Config	Base Package Service - Validation
CMPIS-1278	Business Config	Bolt On Package Service - Validation
CMPIS-1279	Business Config	Top Up Package Service - Validation
CMPIS-1280	Business Config	Tariff Package Service - Validation
CMPIS-1298	Orders	Add Order - Billing Radio Selection - Mandatory
CMPIS-1302	Business Config	Tariff Packages – alignment of billing type
CMPIS-1322	Admin Console	Sabre Alerts Don't Contain Probe Name
CMPIS-1329	Bill Cycle Change	Openet Bill Cycle Change Adapter Metadata incomplete/incorrect
CMPIS-1332	AgentView	Subscription service records are created with Invoice This Service = '1' for prepaid base package
CMPIS-1352	Business Config	Tariff Usage Caps Not Displaying Correctly
CMPIS-1375	Bulk Actions	Edit Subscription - Load Daemon - Metadata - Category Rename
CMPIS-1376	Data Warehouse Extracts	Prepaid Usage Extract - Duplicate Records
CMPIS-1387	Comms	Comms issue adding an SMS notification
CMPIS-1388	AgentView	Comms configuration issue in Agent View
CMPIS-1393	AgentView	Cannot cancel the card from Agent view
CMPIS-1395	Admin Console	Interactive run of probes not working
CMPIS-1396	Admin Console	Hyperlink on Probe Donut not working
CMPIS-1400	Rated Usage	Duplicate External Identifier Validation Issue
CMPIS-1416	AgentView	Top up packages cannot be purchased via agent view
CMPIS-1425	Web Services	REST - Get Allowances - inclusive & remaining units values returned in different formats
CMPIS-1451	Admin Console	System goes into loop when attempt made to load serial numbers with invalid account
CMPIS-1454	Comms	Comms Email Monitor job doesn't stop if the email server can't be connected to
CMPIS-1465	Admin Console	Can't remove recipients email addresses from probes
CMPIS-1483	Web Services	REST - Post Purchase receipt required
CMPIS-1490	Business Config	Comms - External Delivery Method - Refactor
CMPIS-1491	Business Config	Comms - SMS Delivery Method - Refactor
CMPIS-1492	Business Config	Comms - Push Delivery Method - Refactor

CMPIS-1493	Business Config	Comms - Email Delivery Method - Refactor
CMPIS-1494	Business Config	Comms - Online Delivery Method - Refactor
CMPIS-1500	Web Services	GET Subscription - SERVICE_UNAVAILABLE
CMPIS-1501	Credit Control	Credit Control Issue
CMPIS-1519	Billing	Bill Print Extract Daemon failing
CMPIS-1520	Data Warehouse Extracts	Invoice Analytics Job failing
CMPIS-1521	Data Warehouse Extracts	DWH Transmission Daemon - not picking up all files
CMPIS-1532	Admin Console	Error scheduling DWH extracts to run at the same time
CMPIS-1548	Data Warehouse Extracts	Hierarchy Analytics - Job failed
CMPIS-1549	Rated Usage	Rated Usage Simulator - simulator failing to run
CMPIS-1584	General Ledger	General Ledger - Job failing
CMPIS-1589	Rated Usage	Rated Usage Load Daemon failing
CMPIS-1603	Recurring Payments	Card Mode - job failing when refunds need to be included and issue with records not picked
CMPIS-1621	Workflow Monitor	beforeStep updating future records
CMPIS-1630	Comms	Comms Transmit to Storage Daemon - change how file location is updated

6.0 Documentation

6.1 Product Documentation

The product documentation is available online at <https://cmp-docs.com/Content/Home.htm>. This online portal requires authorised access, which can be obtained by contacting MDS Global support. The documentation is also available as downloadable PDFs as follows:

Document	Version	Status
CMP 8.2 Release Notes	1.0	New
CMP 8.2 Installation Guide	1.0	Updated from CMP 8.1 version
CMP 8.2 Technical Architecture	1.0	Updated from CMP 8.1 version
CMP 8.2 Business Configuration Overview	1.0	Updated from CMP 8.1 version
CMP 8.2 Payments Functionality Guide	1.0	Updated from CMP 8.1 version
CMP 8.2 Extracts Guide	1.0	Updated from CMP 8.1 version
CMP 8.2 RESTFul Web Services API Guide	1.0	Updated from CMP 8.1 version
CMP 8.2 SOAP Web Services Semantics Guide	1.0	Updated from CMP 8.1 version
CMP 8.2 Operational Overview	1.0	Updated from CMP 8.1 version

6.1.1 Updated Documents

6.1.1.1 Installation Guide

The Installation Guide has been updated to include details of prerequisites for the installation of a high availability system and a new section has been added for SOAP web service properties. The AgentView Interfaces Layer Properties section has been updated to remove some properties that are no longer relevant and Pentaho Server Properties section has been updated to add a new property for the load balancer configuration. In addition, an example of a multiple host inventory file has been added in an appendix to the document.

6.1.1.2 Technical Architecture

The Technical Architecture document has been updated to improve the presentation of the High Availability architecture diagram.

6.1.1.3 Business Configuration Overview

The Business Configuration Overview document has had minor corrections.

6.1.1.4 Payments Functionality Guide

The Payments Functionality Guide has been updated to include new sections on Bond Payments and the General Ledger Extract job.

6.1.1.5 Extracts Guide

The Extracts Guide has been updated in line with the changes specified in section 4.4.4.7 above.

6.1.1.6 RESTful Web Services API Guide

The RESTful Web Services Guide has been updated in line with the changes specified in section 4.7 above.

6.1.1.7 SOAP Web Services Semantics Guide

The SOAP Web Services Semantics Guide has been updated to deprecate the Payments service and update the 'cardReference' length within the Add a Registered Card, Cancel a Registered Card and Update Recurring Payment APIs.

6.1.1.8 Operational Overview Guide

The Operational Overview Guide has been updated to include the new Bulk Action jobs and daemons and also included information on how to customise probe alert templates.

6.1.1.9 Batch Jobs and JSON Schemas Guide (Online Guide Only)

The Batch Jobs and JSON Schemas Guide has been updated in line with the changes specified in section 4.4.4 above.

7.0 Release Upgrade Path

The CMP 8.2 installer includes the capability to upgrade a CMP 8.1.3 installation without the loss of configuration or customer data provided that the software, file system and database structure of the installation in question are at no point manually modified.

The CMP 8.2 Installation Guide, and the details below, should be read before attempting the upgrade to CMP 8.2.

7.1 Upgrade Notes

7.1.1 Inventory Manager Changes

The following properties have been removed from the AgentView Interfaces Layer section of the Inventory manager configuration as they are no longer required to be set as part of the installation:

- settings_country_code
- settings_remote_storage_protocol
- settings_remote_storage_host
- settings_remote_storage_port
- settings_remote_storage_username
- settings_remote_storage_password
- settings_donor_led_porting_common_url
- settings_external_bank_validation_enabled

The 'user_time_zone' property has also been removed from the JBoss section.

In addition, a new mandatory variable, "Redirect Payment REST User Password", has been added to the inventory file under the AgentView section. This is the password for the user that is used to update the payment records based on the response from the payment provider (only used internally within CMP). Please Note: This password must adhere to the defined WSO2 Identity Server password policy. The password will not be validated against the policy when saving the inventory, but the installation will fail if the password policy is violated. The default policy states the password should contain a digit [0-9], a lower case letter [a-z], an upper case letter [A-Z] and one of '!@#\$\$%&', but this may have been changed post installation.

7.1.2 Overridden Properties Files

It should be noted that an existing CMP installation with overridden module property files will not be automatically upgraded.

Where the module property file has changed between the CMP 8.1.3 and CMP 8.2 release then it may be necessary to redeploy the module. Modules that require redeployment, either because of additional configuration requirements, missing configuration or an overridden properties file, are indicated a warning symbol above the deployment icon. If the module has missing configuration then use the edit button on the module properties page to add required configuration rather than using the missing

module property configuration page accessible through the warning link at the top of the page:

❗ One or more modules contain properties which need to be configured in order to function. Click [here](#) to configure these properties.

If the module cannot successfully be edited and re-deployed then it may be necessary to revert back to the original properties file first and then re-apply the changes made for 8.1.3. It is recommended that the overridden properties files are backed up (/etc/mdsglobal/sabre/server/classpath-override) prior to the upgrade.

7.2 Third party libraries

No third-party libraries will be updated as part of the installation.

7.3 Database Changes

7.3.1 New Tables

The following tables have been added to the database schema with respect to CMP 8.1.3:

- BulkActionInterfaceJobControlParameter
- C4JVREP (Analyser Extract Params).
- C4JWREP (Analyser Extract Supp).

7.3.2 New Attributes

The following table attributes have been added:

- Table BulkActionInterfaceBatchHeader, attributes StructureExpansionStatus and CrossStructureValidationStatus.
- Table C4JYREP (Analyser Extract Run Hist), attribute JYCLCD.

7.3.3 Dropped Attribute

The following table attributes have been dropped:

- Table C4JYREP (Analyser Extract Run Hist), attribute JYEFNB (IH Invoice Number).
- Table BulkActionInterfaceBatchHeader, attributes isCrossStructureValidationRequired, <isCrossStructureValidationPerformed> and isStructureExpansionRequired

7.3.4 Modified attributes

The following attributes have had their physical data type changed from CHAR(20) to VARCHAR(100):

- Table C5APCPP (Refresh Control), attribute APYJTY (Card Reference Number)
- Table PaymentCardBatchDetail, attribute CardReferenceNumber
- Table COG8REP (CC/DC Detail), attribute G8YJTY (Card Reference Number)
- Table CardPayment, attribute CardReferenceNumber

The following attributes have changed as follows:

- Table CreditControlAddWork, attribute NewProcedureCode changed from CHAR(3) to CHAR(6).
- Table Payment, attribute SPUniqueIdentifier has changed from VARCHAR(40) to VARCHAR(100).
- Table SIMProfile, attribute ICCID has from VARCHAR(19) to VARCHAR(20).

7.4 Configuration Changes

The following configuration updates should be considered when upgrading an existing CMP 8.2 environment:

7.4.1 Tariff Change Matrix

As a change for a postpaid tariff to a prepaid tariff and vice versa is not supported currently in CMP 8.2, it is necessary to prevent this capability by modifying the Tariff Change Matrix table (COIIREP) to ensure that only two records exist to allow a postpaid to postpaid tariff change and a prepaid to prepaid tariff change only.

7.4.2 Length of ICCID

As a result of the change to increase the length of the ICCID for 19 to 20 characters the following database changes are required:

- Network Serial Number (COA5REP): set the s2maxlength value to 20 (currently this is set as 19)
- Network Serial Number Prefix (CSOZREP): set the maxlength value of networkserialnumberid = 2 record to 20 (from current value 19).

7.4.3 New Security Roles

As a result of the new bulk action jobs, the following new group roles will be added to WSO2 as part of the upgrade:

- bulk-plan-tariff-change
- bulk-subscription-feature
- bulk-workflow

These will need to be manually enabled on users requiring access to the new bulk action jobs.

In addition, the existing 'bulk_edit_subscription' group role has been renamed to 'bulk-edit-subscription'. It is recommended that if the 'bulk_edit_subscription' group role still remains after the upgrade then it is deleted manually to avoid confusion.

7.4.4 External Configuration Module

The following system properties have now been exposed through the External Configuration module and need to be configured post deployment/upgrade:

- GENERAL_SETTINGS-CONSUMER.MODE – indicates if the deployment is support only consumers (true) or will support consumers and businesses (false)

- RTC.SUBSCRIPTION.CHARGING-RTC.ENABLED – indicates if the CMP installation is integrated to a real-time charging platform (1) or not (0)
- CURRENCY-ISOCURRENCYCODE – the ISO currency code of the installation eg GBP
- DLS.INVOICE-BASEURL - the base URL to be used when launching the browser to view PDF invoices.
- DLS.INVOICE-BASEPATH - the base path that holds the stored invoices
- DLS.INVOICE-SECURE_SESSION_REQUIRED - Indicates whether secure tokens are used when launching a browser. This is to prevent unauthorised access to sensitive information.
- DLS.CORRESPONDENCE-BASEURL - the base URL to be used when launching the browser to view comms.
- DLS.CORRESPONDENCE-BASEPATH – the base path that holds the stored comms

Prior to upgrading from a previous CMP installation, it is recommended that the existing property values defined in the system properties table (C7DFREP) are noted and re-applied through the external configuration module property configuration post upgrade.

7.4.5 Known Issues

7.4.5.1 Schedule Import

If you import a predefined schedule into the Admin Console and activate the items on the schedule then you need to restart the Sabre Server for the schedule to take effect.